

HIV Infection in Adolescents and Young Adults

Adolescent Clinic Clients

An unlinked HIV prevalence study has been conducted intermittently in a New York City adolescent health clinic. HIV prevalence has been highest in females, blacks and those clients over the age of 18 (see Figure 3-1). Trends have been difficult to ascertain due to the lack of continuous participation.

Homeless Youth Clinic Clients

An unlinked HIV prevalence study has been conducted intermittently in a New York City facility for runaway and homeless youth. HIV prevalence has been highest in black clients, and tends to increase with increasing age (see Figure 3-2). HIV prevalence was lowest in those clients whose most recent residence had been the Bronx (0.5%) when compared to Brooklyn, Manhattan and Queens (about 1.3%). However, when looking at prevalence by gender, males from Manhattan were much more likely to be positive than females from Manhattan (2.4% or 10 in 414 cases vs. 0.2% or 1 in 474 cases), and females from Queens were more likely to be positive than males from Queens (2.2% vs. 0.4%). About 5 percent of females who indicated injecting drugs and/or using crack cocaine were HIV positive. Nearly 9% of males who had sex with males were HIV positive.

Military Applicants

Since October 1985, all people applying for active duty or reserve military service, the

service academies and the Reserve Officer Training Corps have been screened for HIV infection as part of their medical entrance examination. Because applicants are informed that they will be screened for HIV, individual applicants who know or suspect that they are HIV infected may voluntarily terminate their applications. Accordingly, those at highest risk for HIV infection are likely underrepresented among those medically screened for military service.

Since 1995, trends in HIV prevalence among military applicants have been relatively stable. During this five year period, prevalence was four times higher in recruits from New York City compared to recruits from the rest of New York State (0.17% vs 0.04%) and the entire United States (0.04%) (see Figure 3-3). During this period, rates were highest in blacks and prevalence generally increased with increasing age. Similar rates of HIV infection were noted in males and females (0.08% positive).

Job Corp Applicants

Job Corps, administered by the U.S. Department of Labor, is a national training and employment program for urban and rural disadvantaged youth age 16 to 24 years. In March 1987, Job Corps began screening all entrants for HIV, with their knowledge, and those testing positive were not accepted into the program. Since August 1989, only those applying for

residential status (approximately 90% of applicants) have been screened for HIV; HIV positive applicants may remain in the program as nonresidential students. The Job Corps program has no exclusion based on sexual orientation, hemophilia, or past use of illegal drugs. Current use of illegal drugs, however, is cause for exclusion. As with the military recruits, it is possible that drug-using applicants or applicants who know or suspect that they are HIV positive may terminate their application prior to medical screening, leading to an under-representation of individuals most at risk for HIV.

Data from Job Corp entrants are only available through 1997. Between 1993 and 1997 females were more likely to be infected than males (0.4% vs. 0.2%). Those from NYC were more likely than those from the rest of the state to be infected (0.3% vs. 0.2%). While the rate in male entrants has generally declined, the HIV infection rate in females has not (see Figure 3-4). Rates are highest in blacks. In the last 2 years of survey data, no whites or Hispanics have tested HIV positive.

Office of Children and Family Services

The New York State Office of Children and Family Services (OCFS), formerly known as Division for Youth, operates the state's residential juvenile justice programs. These facilities provide rehabilitative programs for youth adjudicated delinquent in family court or convicted of

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selected serious felonies in criminal court. Only youth whose delinquent criminal acts were committed before the age of 16 are eligible for the juvenile residential facilities. Residents are predominantly in the age range of 15-17 years.

OCFS provides comprehensive HIV prevention and treatment services for resident youth under a Memorandum of Understanding with the Department of Health. The program includes HIV prevention education; voluntary, confidential, individual

counseling and HIV antibody testing; medical management of seropositive youth by adolescent HIV/AIDS treatment programs at major medical centers; and peer education through community-based organizations.

Results of voluntary HIV testing of residents in 1996, 1997, 1998 and 1999 showed two seropositive males in 1996, one seropositive female in 1997, two seropositive males in 1998 and no seropositive residents in 1999 (see Figure 3-5). Prevalence in this self-selected subpopulation of

court-adjudicated youth ranged from 0.35 percent overall in 1996 to 0.00% in 1999.

Although youth admitted to New York State residential juvenile justice facilities are thought to be at risk for HIV infection due to numerous social, environmental and behavioral factors, very few are infected. Young women appear to be at greater risk than young men. This finding is consistent with prior community-based studies of younger adolescents in New York City.

Figure 3-1

Unlinked Serosurvey of Adolescent Clinic Clients HIV Prevalence in One New York City Clinic

All Clients, 1995 - 1999*

Year of Serosurvey	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
1995	0	361	0.0	5	1,302	0.4	5	1,666	0.3
1996	0	612	0.0	5	1,883	0.3	5	2,495	0.2
1997	1	650	0.2	7	1,916	0.4	8	2,566	0.3
1998**	0	115	0.0	0	407	0.0	0	522	0.0
1999	2	451	0.4	1	1,542	0.1	3	1,993	0.2
Total	3	2,189	0.1	18	7,050	0.3	21	9,242	0.2

Race/Ethnicity	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
Black,non-Hispanic	2	959	0.2	14	3,200	0.4	16	4,159	0.4
Hispanic	0	1,027	0.0	3	3,244	0.1	3	4,274	0.1
Other/Unknown	1	203	0.5	1	606	0.2	2	809	0.3
Total	3	2,189	0.1	18	7,050	0.3	21	9,242	0.2

Age	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
≤ 18	1	1,580	0.1	10	4,723	0.2	11	6,305	0.2
≥ 19	2	609	0.3	8	2,327	0.3	10	2,937	0.3
Total	3	2,189	0.1	18	7,050	0.3	21	9,242	0.2

*Participation was not continuous.

**There were only a small number tested in 1998.

Figure 3-1

Unlinked Serosurvey of Adolescent Clinic Clients, HIV Prevalence in One New York City Clinic, All Clients, 1995 - 1999*
(continued)

Figure 3-1a Year of Serosurvey

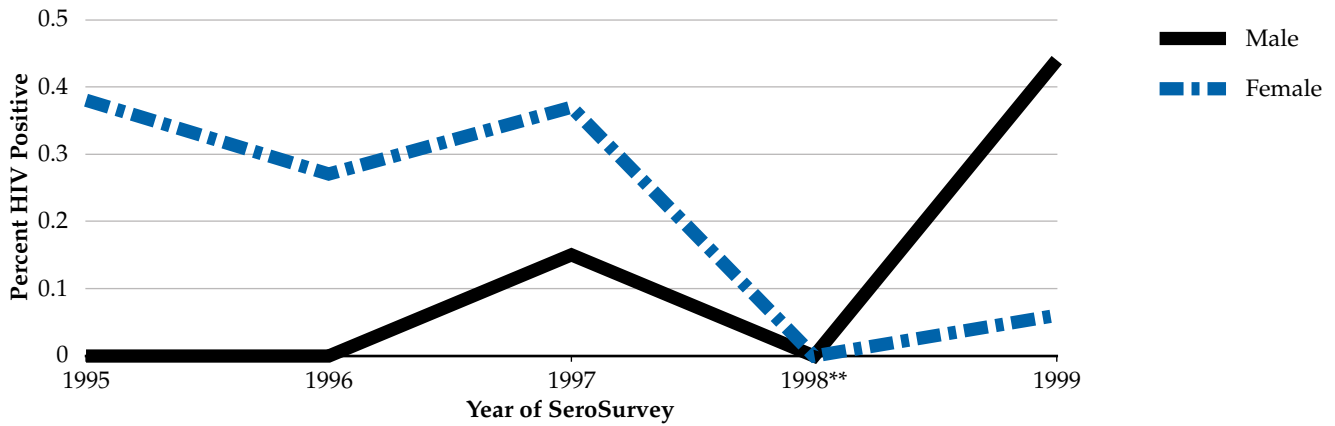


Figure 3-1b Race/Ethnicity

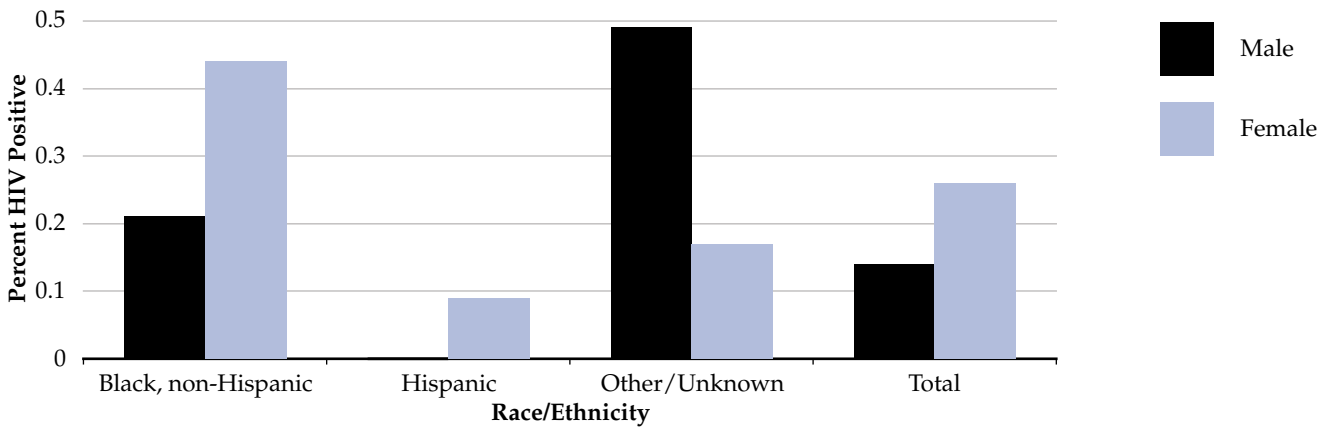
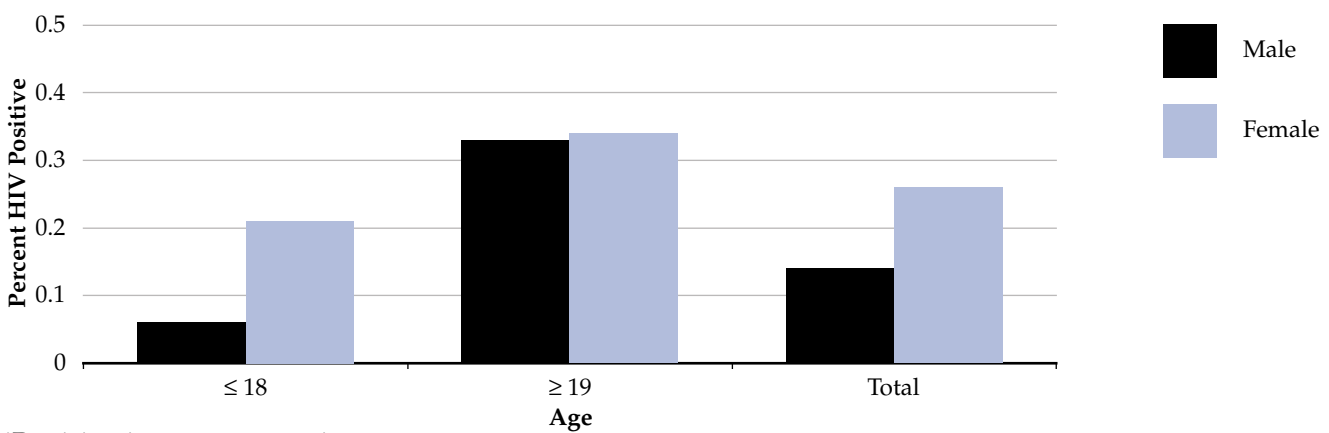


Figure 3-1c Age



*Participation was not continuous.

**There were only a small number tested in 1998.

Figure 3-2

Unlinked Serosurvey of Homeless Youth Clinic Clients HIV Prevalence in One New York City Clinic

All Clients, 1995 - 1999*

Year of Serosurvey	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
1995	3	538	0.6	9	634	1.4	12	1,172	1.0
1996	9	723	1.2	8	780	1.0	17	1,503	1.1
1997**	2	63	3.2	0	57	0.0	2	120	1.7
1998	6	288	2.1	3	261	1.2	9	549	1.6
1999	8	788	1.0	6	759	0.8	14	1,551	0.9
Total	28	2,400	1.2	26	2,491	1.0	54	4,895	1.1

Race/Ethnicity	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
White, non-Hispanic	1	232	0.4	0	155	0.0	1	387	0.3
Black, non-Hispanic	21	1,404	1.5	24	1,640	1.5	45	3,044	1.5
Hispanic	5	696	0.7	2	633	0.3	7	1,329	0.5
Other/Unknown	1	68	1.5	0	63	0.0	1	135	0.7
Total	28	2,400	1.2	26	2,491	1.0	54	4,895	1.1

Age	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
12-16	0	210	0.0	1	343	0.3	1	557	0.2
17	1	205	0.5	2	271	0.7	3	476	0.6
18	8	635	1.3	7	760	0.9	15	1,395	1.1
19	8	685	1.2	8	604	1.3	16	1,289	1.2
20-25	11	665	1.7	8	512	1.6	19	1,177	1.6
Total	28	2,400	1.2	26	2,491	1.0	54	4,895	1.1

*Participation was not continuous.

**There were only a small number tested in 1997.

Figure 3-2

Unlinked Serosurvey of Homeless Youth Clinic Clients, HIV Prevalence in One New York City Clinic, All Clients, 1995 - 1999* (continued)

Figure 3-2a **Year of Serosurvey**

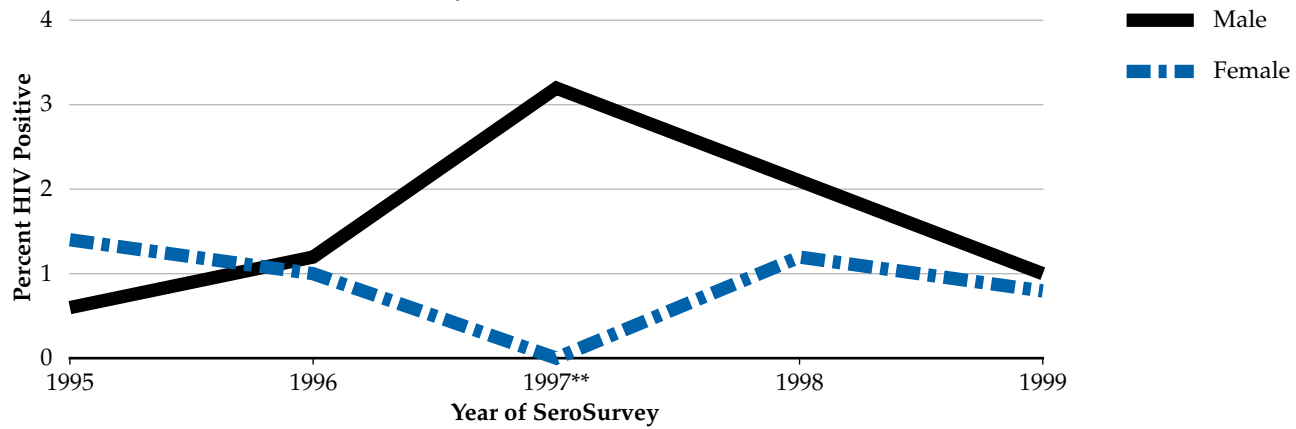


Figure 3-2b **Race/Ethnicity**

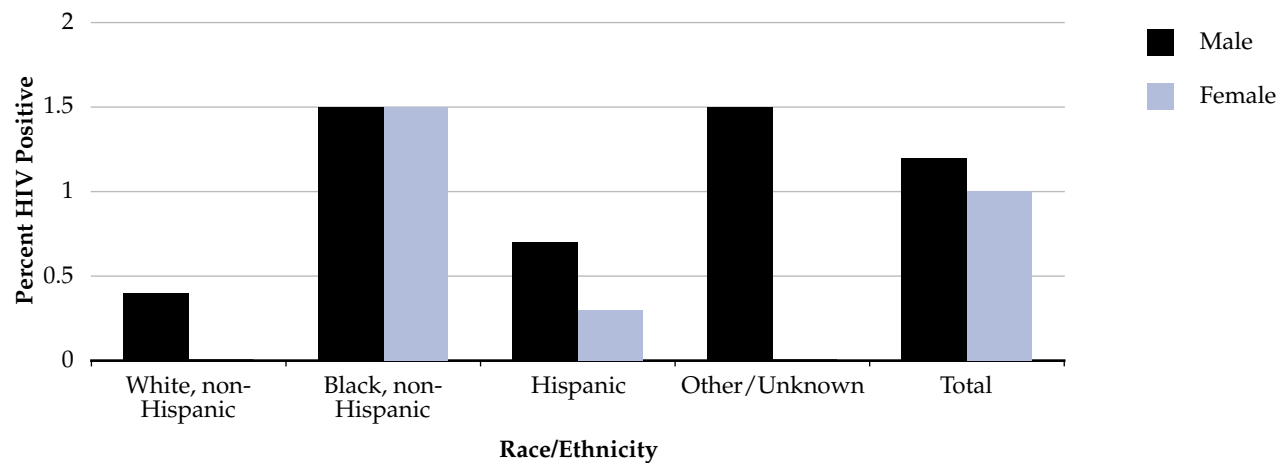
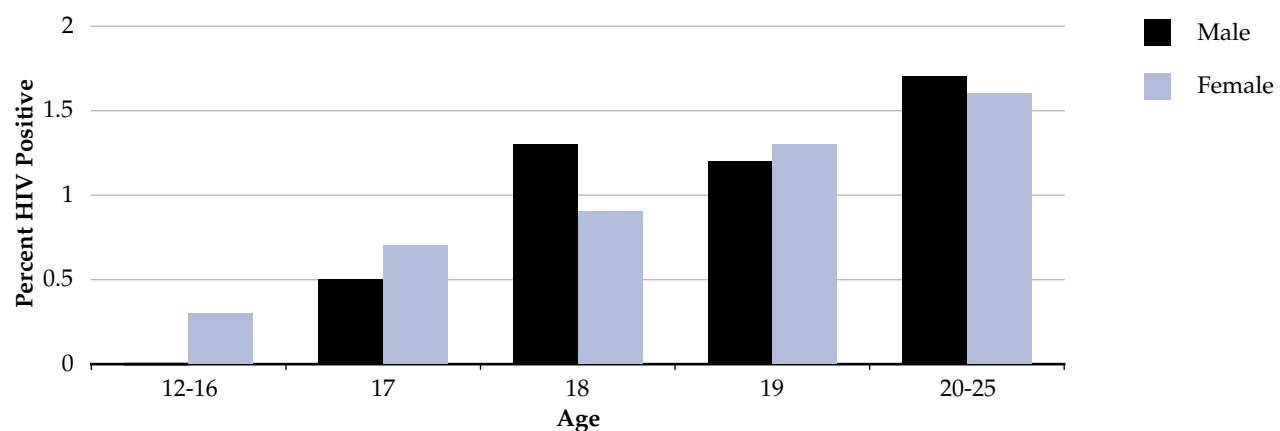


Figure 3-2c **Age**



*Participation was not continuous.

**There were only a small number tested in 1997.

Figure 3-2

Unlinked Serosurvey of Homeless Youth Clinic Clients HIV Prevalence in One New York City Clinic

All Clients, 1995 - 1999*

Borough of Last Residence	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
Bronx	2	451	0.4	3	576	0.5	5	1,027	0.5
Brooklyn	7	634	1.1	11	815	1.4	18	1,449	1.2
Manhattan	10	414	2.4	1	474	0.2	11	888	1.2
Queens	1	263	0.4	6	275	2.2	7	538	1.3
Other/Unknown/ Out of City	8	638	1.3	5	351	1.4	13	993	1.3
Total	28	2,400	1.2	26	2,491	1.0	54	4,895	1.1

Risk Behaviors**	Male			Female			Total		
	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive	Number Positive	Number Tested	Percent Positive
Men Who Have Sex With Men	14	155	9.0	—	—	—	14	155	9.0
Injecting Drug Use	2	121	1.7	2	36	5.6	4	157	2.6
Crack Cocaine Use	2	144	1.4	3	69	4.4	5	213	2.4
Exchange \$/Drugs For Sex	4	121	3.3	2	68	2.9	6	189	3.2
Heterosexual Activity	11	1,966	0.6	25	2,169	1.2	36	4,135	0.9

*Participation was not continuous

**Self-reported risk behavior. Behaviors are not mutually exclusive and are non-hierarchical.

Figure 3-2

Unlinked Serosurvey of Homeless Youth Clinic Clients, HIV Prevalence in One New York City Clinic, All Clients, 1995 - 1999* (continued)

Figure 3-2d **Borough of Residence**

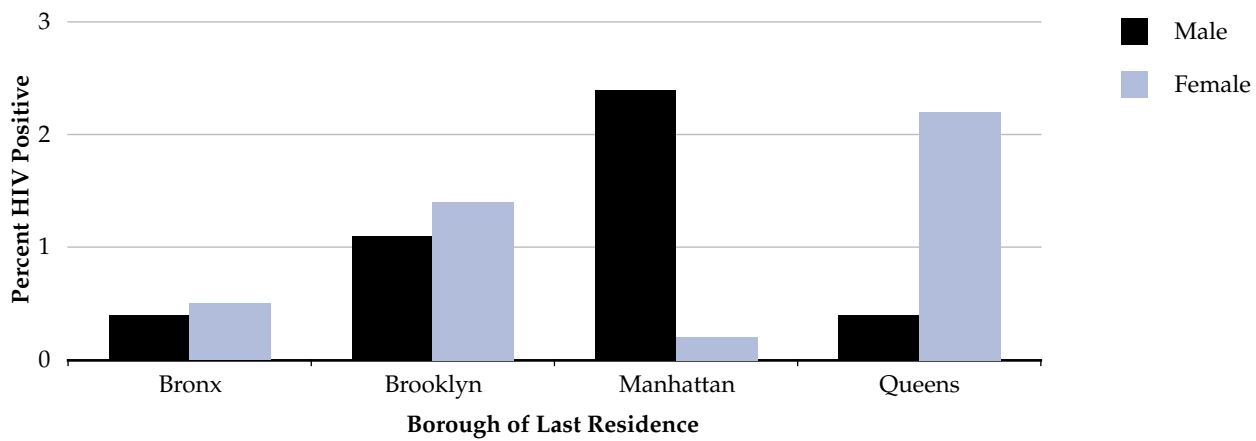
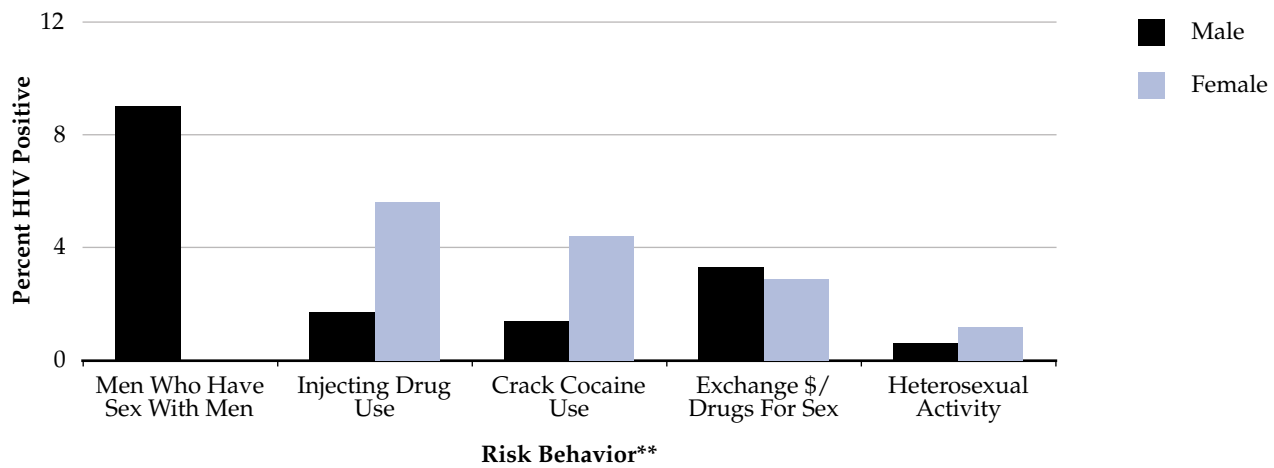


Figure 3-2e **Risk Behaviors****



*Participation was not continuous

**Self-reported risk behavior. Behaviors are not mutually exclusive and are non-hierarchical.

Figure 3-3

HIV Prevalence Among Military Recruits by Demographic Characteristics and Region

New York State, 1995 - 1999

Region of Residence		Year of Entrance					Total
		1995	1996	1997	1998	1999	
New York City	Number Positive	11	11	14	7	11	54
	Number Tested	5,697	6,339	6,786	6,696	6,693	32,211
	Percent HIV Positive	0.19	0.17	0.21	0.10	0.16	0.17
Rest of State	Number Positive	5	7	2	5	2	21
	Number Tested	11,841	12,351	12,796	11,749	10,873	59,610
	Percent HIV Positive	0.04	0.06	0.02	0.04	0.02	0.04
United States	Number Positive	145	145	125	124	132	671
	Number Tested	333,829	349,395	357,581	340,235	345,016	1,726,056
	Percent HIV Positive	0.04	0.04	0.03	0.04	0.04	0.04

Gender		Year of Entrance					Total
		1995	1996	1997	1998	1999	
Males	Number Positive	12	12	14	11	10	59
	Number Tested	14,053	14,770	15,622	14,588	13,786	72,819
	Percent HIV Positive	0.09	0.08	0.09	0.08	0.07	0.08
Females	Number Positive	4	6	2	1	3	16
	Number Tested	3,507	3,923	3,960	3,857	3,780	19,027
	Percent HIV Positive	0.11	0.15	0.05	0.03	0.08	0.08
Total Number Positive		16	18	16	12	13	75
Total Tested		17,560	18,693	19,582	18,445	17,566	91,846
Total Percent HIV Positive		0.09	0.10	0.08	0.07	0.07	0.08

Source: U.S. Centers for Disease Control and Prevention.

Figure 3-3

HIV Prevalence Among Military Recruits by Demographic Characteristics and Region, New York State, 1995 - 1999 (continued)

Figure 3-3a **Region of Residence**

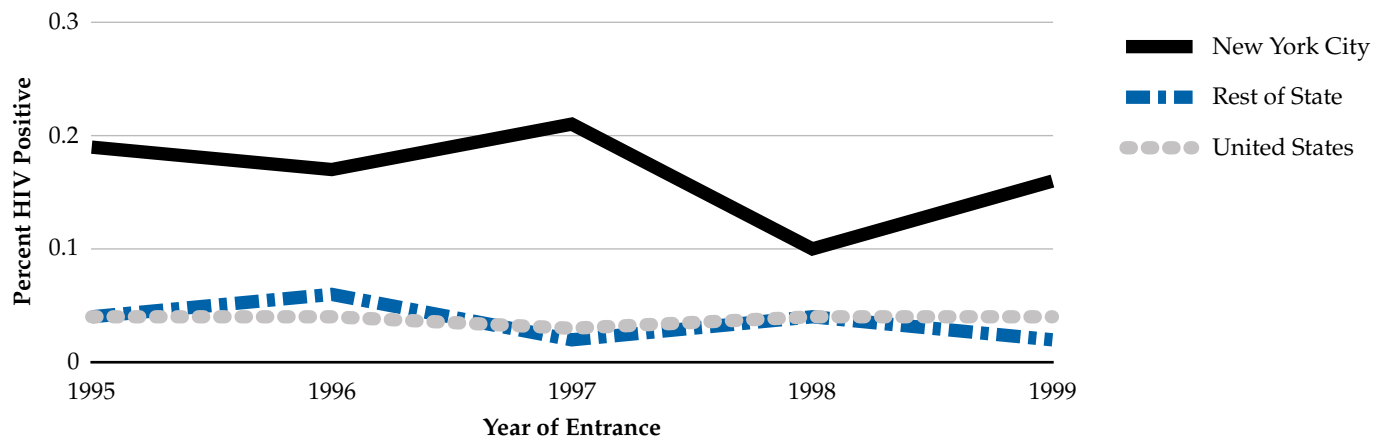
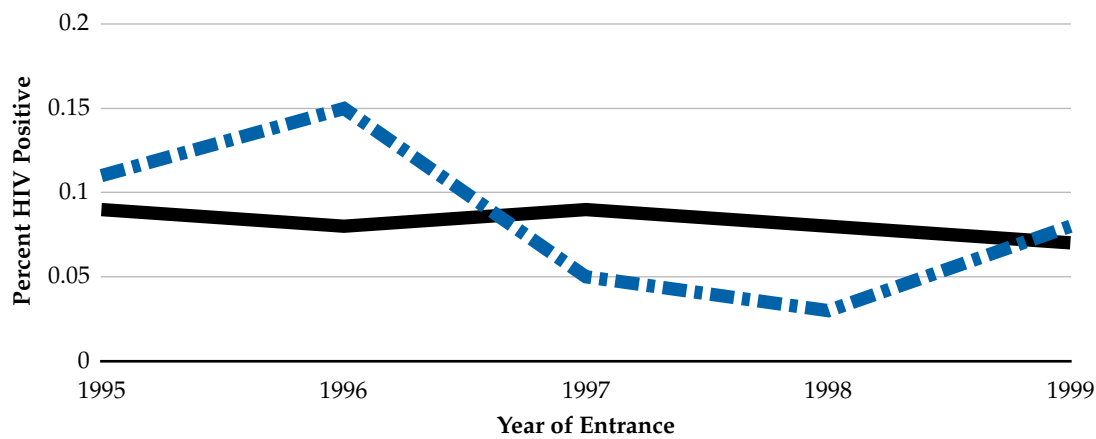


Figure 3-3b **Gender**



Source: U.S. Centers for Disease Control and Prevention.

Figure 3-3

HIV Prevalence Among Military Recruits by Demographic Characteristics and Region, New York State, 1995 - 1999 (continued)

Race/Ethnicity		Year of Entrance					Total
		1995	1996	1997	1998	1999	
White	Number Positive	2	3	1	3	1	10
	Number Tested	10,458	10,756	11,004	10,076	9,237	51,531
	Percent HIV Positive	0.02	0.03	0.01	0.03	0.01	0.02
Black	Number Positive	11	12	15	6	11	55
	Number Tested	3,867	4,364	4,881	4,615	4,571	22,298
	Percent HIV Positive	0.28	0.27	0.31	0.13	0.24	0.25
Hispanic	Number Positive	2	1	0	2	1	6
	Number Tested	2,431	2,274	2,239	2,825	2,805	12,574
	Percent HIV Positive	0.08	0.04	0.00	0.07	0.04	0.05
Other/Unknown	Number Positive	1	2	0	1	0	4
	Number Tested	804	1,299	1,458	929	953	5,443
	Percent HIV Positive	0.12	0.15	0.00	0.11	0.00	0.07
Total Number Positive		16	18	16	12	13	75
Total Tested		17,560	18,693	19,582	18,445	17,566	91,846
Total Percent HIV Positive		0.09	0.10	0.08	0.07	0.07	0.08

Age		Year of Entrance					Total
		1995	1996	1997	1998	1999	
17-19	Number Positive	1	3	2	4	3	13
	Number Tested	8,568	9,111	9,694	9,717	9,409	46,499
	Percent HIV Positive	0.01	0.03	0.02	0.04	0.03	0.03
20-24	Number Positive	7	6	6	2	3	24
	Number Tested	5,954	6,159	6,289	5,640	5,360	29,402
	Percent HIV Positive	0.12	0.10	0.10	0.04	0.06	0.08
25-29	Number Positive	4	5	3	5	1	18
	Number Tested	1,828	2,011	2,080	1,748	1,597	9,264
	Percent HIV Positive	0.22	0.25	0.14	0.29	0.06	0.19
30+	Number Positive	4	4	5	1	6	20
	Number Tested	1,210	1,412	1,519	1,340	1,200	6,681
	Percent HIV Positive	0.33	0.28	0.33	0.07	0.50	0.30
Total Number Positive		16	18	16	12	13	75
Total Tested		17,560	18,693	19,582	18,445	17,566	91,846
Total Percent HIV Positive		0.09	0.10	0.08	0.07	0.07	0.08

Source: U.S. Centers for Disease Control and Prevention.

Figure 3-3

HIV Prevalence Among Military Recruits, by Demographic Characteristics and Region, New York State, 1995 -1999
(continued)

Figure 3-3c **Race/Ethnicity**

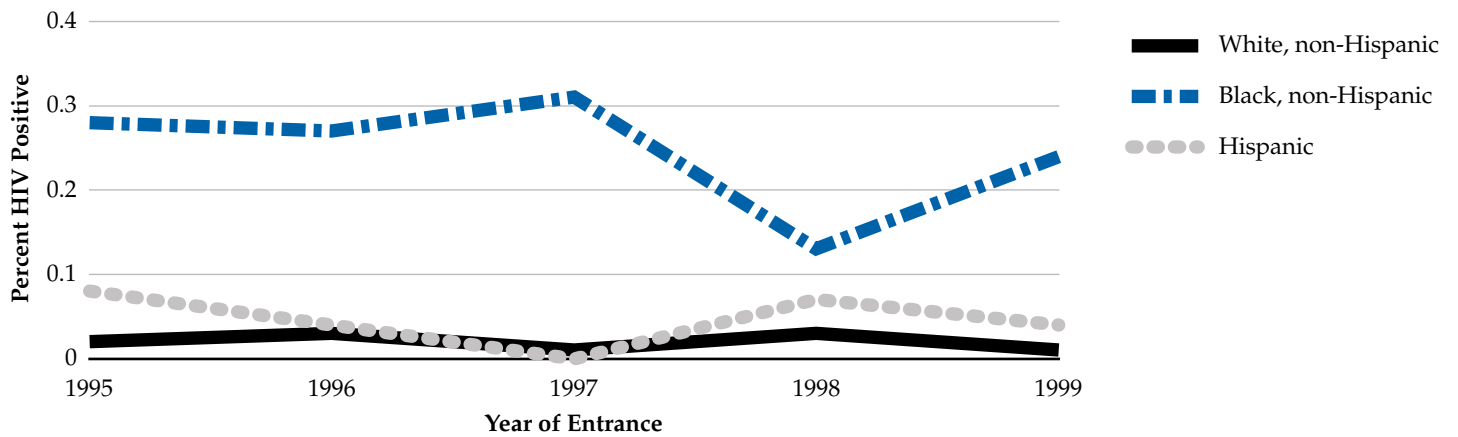
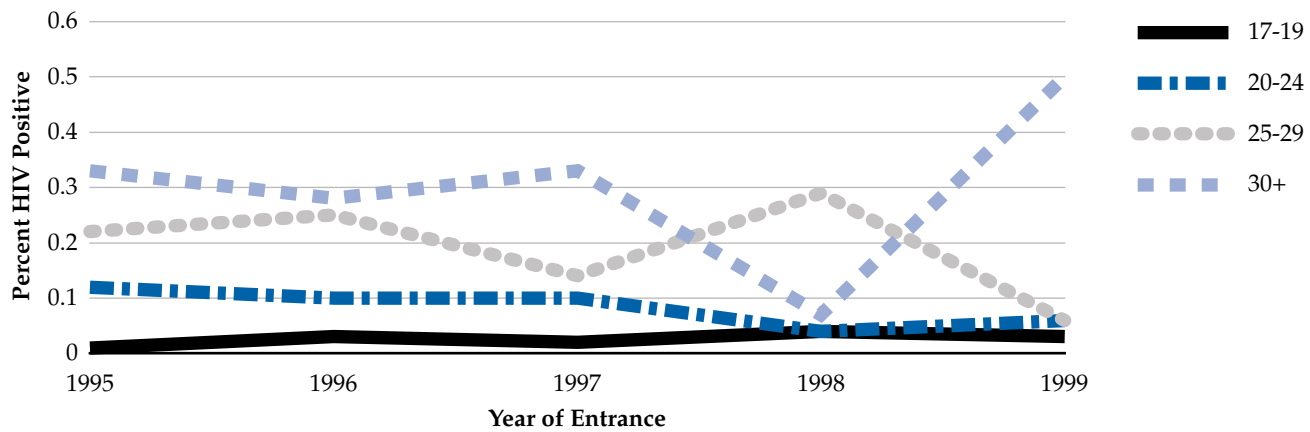


Figure 3-3d **Age**



Source: U.S. Centers for Disease Control and Prevention.

Figure 3-4

HIV Prevalence Among Job Corps Entrants* by Demographic Characteristics and Region

New York State, 1993 - 1997**

		Year of Serosurvey					Total
		1993	1994	1995	1996	1997	
Gender							
Males	Number Tested	1,727	1,926	2,016	2,147	1,659	9,475
	Percent HIV Positive	0.3	0.4	0.3	0.0	0.0	0.2
Females	Number Tested	984	1,100	1,159	1,368	1,192	5,803
	Percent HIV Positive	0.2	0.1	0.8	0.3	0.4	0.4
Total Tested		2,711	3,026	3,175	3,515	2,851	15,278
Total Percent HIV Positive		0.3	0.3	0.5	0.1	0.2	0.3

		Year of Entrance					Total
		1993	1994	1995	1996	1997	
Race/Ethnicity							
White, non-Hispanic	Number Tested	327	251	298	440	359	1,675
	Percent HIV Positive	0.0	0.4	0.0	0.0	0.0	0.1
Black, non-Hispanic	Number Tested	1,637	1,959	1,974	2,182	1,774	9,526
	Percent HIV Positive	0.2	0.4	0.6	0.1	0.2	0.3
Hispanic	Number Tested	716	774	866	854	672	3,882
	Percent HIV Positive	0.4	0.0	0.2	0.0	0.0	0.1
Other/Unknown	Number Tested	31	42	37	39	46	195
	Percent HIV Positive	0.0	0.0	2.7	2.6	2.2	1.6
Total Tested		2,711	3,026	3,175	3,515	2,851	15,278
Total Percent HIV Positive		0.3	0.3	0.5	0.1	0.2	0.3

		Year of Serosurvey					Total
		1993	1994	1995	1996	1997	
Region of Residence							
New York City	Number Tested	2,098	2,343	2,391	2,441	1,879	11,152
	Percent HIV Positive	0.3	0.3	0.4	0.2	0.2	0.3
Rest of State	Number Tested	613	683	784	1,074	972	4,126
	Percent HIV Positive	0.0	0.2	0.6	0.0	0.1	0.2
Total Tested		2,711	3,026	3,175	3,515	2,851	15,278
Total Percent HIV Positive		0.3	0.3	0.5	0.1	0.2	0.3

*Recruits are aged 16-24.

**Data after 1997 not available.

Source: U.S. Centers for Disease Control and Prevention.

Figure 3-4

HIV Prevalence Among Job Corps Entrants*, by Demographic Characteristics and Region, New York State, 1993 - 1997
(continued)

Figure 3-4a Gender

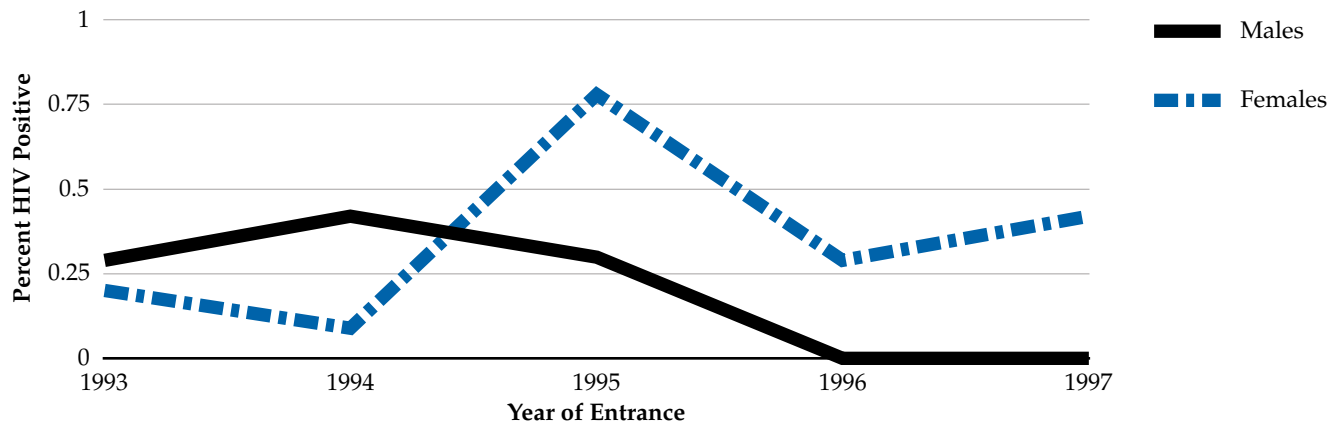


Figure 3-4b Race/Ethnicity

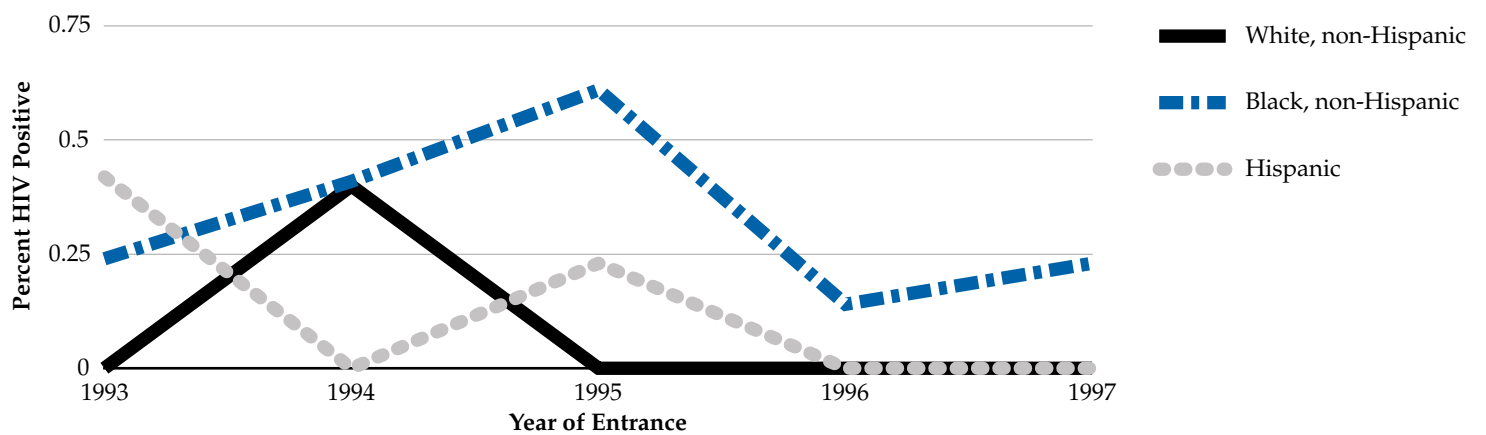
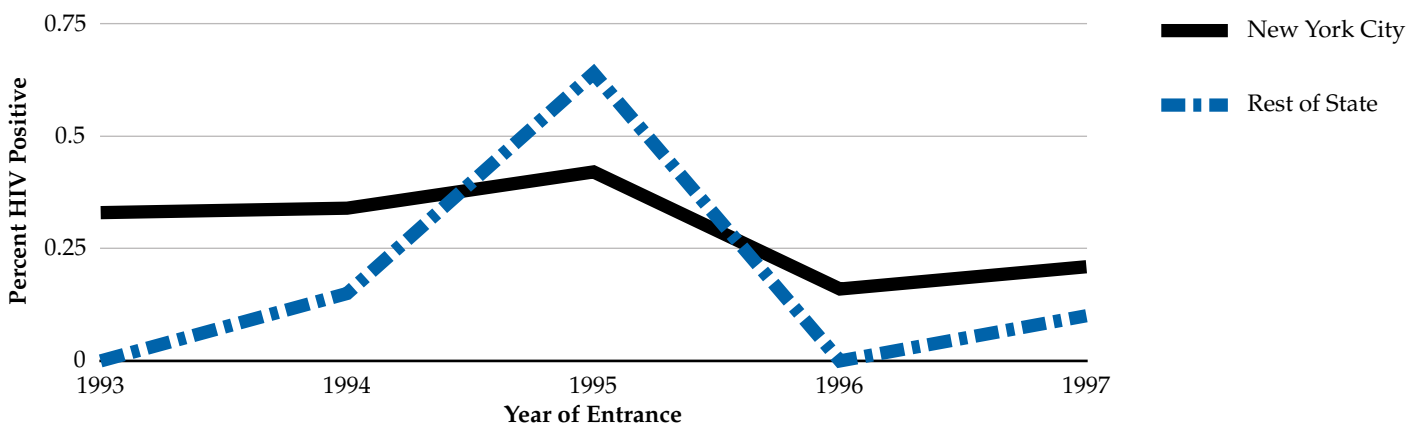


Figure 3-4c Region of Residence



* Recruits are aged 16-24.

Source: U.S. Centers for Disease Control and Prevention

Figure 3-5

Youth Requesting HIV Testing at the Office of Children and Family Services-Operated Residential Facilities for Court Adjudicated Youth

New York State, 1996 - 1997

	1996*				1997**			
	Number Counseled	Number Tested***	Number Positive	Percent Positive	Number Counseled	Number Tested***	Number Positive	Percent Positive
Gender								
Male	550	539	2	0.37	590	546	0	0.00
Female	26	26	0	0.00	123	110	1	0.91
Missing								
Race/Ethnicity								
White, non-Hispanic	105	105	0	0.00	111	104	0	0.00
Black, non-Hispanic	300	291	2	0.69	384	354	1	0.28
Hispanic	134	133	0	0.00	196	178	0	0.00
Asian/Pacific Islander	8	8	0	0.00	0	0	0	0.00
Native American/Alaskan Native	3	2	0	0.00	3	3	0	0.00
Other/Unknown	26	26	0	0.00	19	17	0	0.00
Exposure Category								
Injecting Drug Use	0	0	0	0.00	3	3	0	0.00
Men Who Have Sex With Men	6	6	1	16.67	11	11	0	0.00
Sex Partner of IDU	1	1	0	0.00	5	5	0	0.00
Heterosexual Sex	530	520	1	0.19	629	576	1	0.17
Other	0	0	0	0.00	2	1	0	0.00
Risk Exposure Unknown	39	38	0	0.00	63	60	0	0.00
Residence								
New York City	264	257	2	0.78	417	390	1	0.26
Rest of State	312	308	0	0.00	296	266	0	0.00
Total Tested	576	565	2	0.35	713	656	1	0.15

* Data not previously published.

** Data updated since last published.

***Includes only valid, complete tests; does not include tests where no result was found or where the result was inconclusive.

Figure 3-5

Youth Requesting HIV Testing at the Office of Children and Family Services-Operated Residential Facilities for Court Adjudicated Youth

New York State, 1998 - 1999

	1998				1999			
	Number Counseled	Number Tested***	Number Positive	Percent Positive	Number Counseled	Number Tested***	Number Positive	Percent Positive
Gender								
Male	804	623	2	0.32	760	669	0	0.00
Female	175	166	0	0.00	204	190	0	0.00
Missing					1	1	0	0.00
Race/Ethnicity								
White, non-Hispanic	121	107	2	1.87	141	130	0	0.00
Black, non-Hispanic	558	431	0	0.00	546	485	0	0.00
Hispanic	265	225	0	0.00	221	196	0	0.00
Asian/Pacific Islander	2	1	0	0.00	6	3	0	0.00
Native American/Alaskan Native	4	4	0	0.00	12	11	0	0.00
Other/Unknown	29	21	0	0.00	39	35	0	0.00
Exposure Category								
Injecting Drug Use	8	8	0	0.00	5	5	0	0.00
Men Who Have Sex With Men	21	18	1	5.56	40	35	0	0.00
Sex Partner of IDU	10	9	0	0.00	5	5	0	0.00
Heterosexual Sex	894	728	1	0.14	851	773	0	0.00
Other	1	1	0	0.00	4	4	0	0.00
Risk Exposure Unknown	45	25	0	0.00	60	38	0	0.00
Residence								
New York City	549	439	0	0.00	542	481	0	0.00
Rest of State	430	350	2	0.57	423	379	0	0.00
Total Tested	979	789	2	0.25	965	860	0	0.00

* Data not previously published.

** Data updated since last published.

*** Includes only valid, complete tests; does not include tests where no result was found or where the result was inconclusive.

Figure 3-5

Youth Requesting HIV Testing at the Office of Children and Family Services-Operated Residential Facilities for Court Adjudicated Youth

New York State, 1996 - 1999

Figure 3-5a Gender

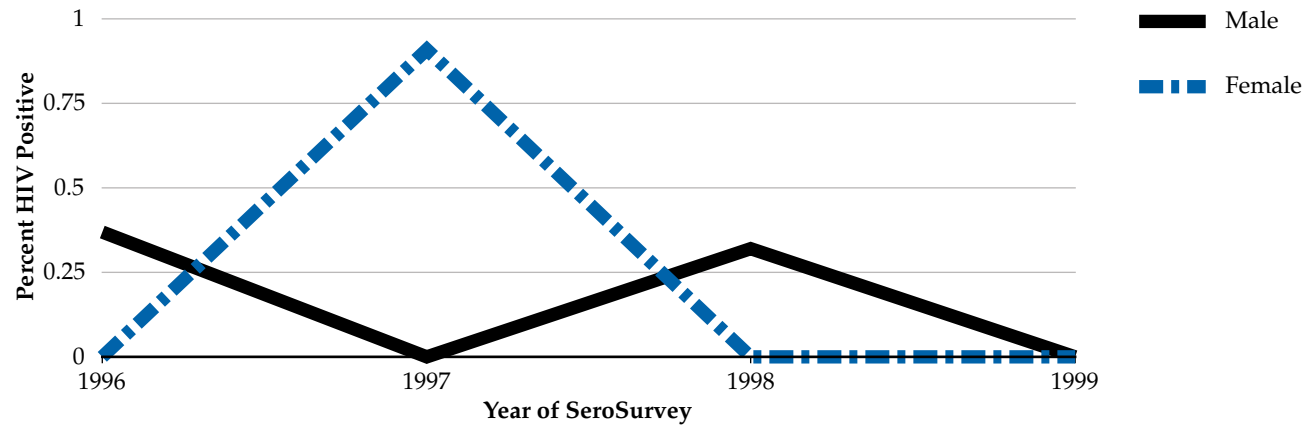


Figure 3-5b Exposure Category

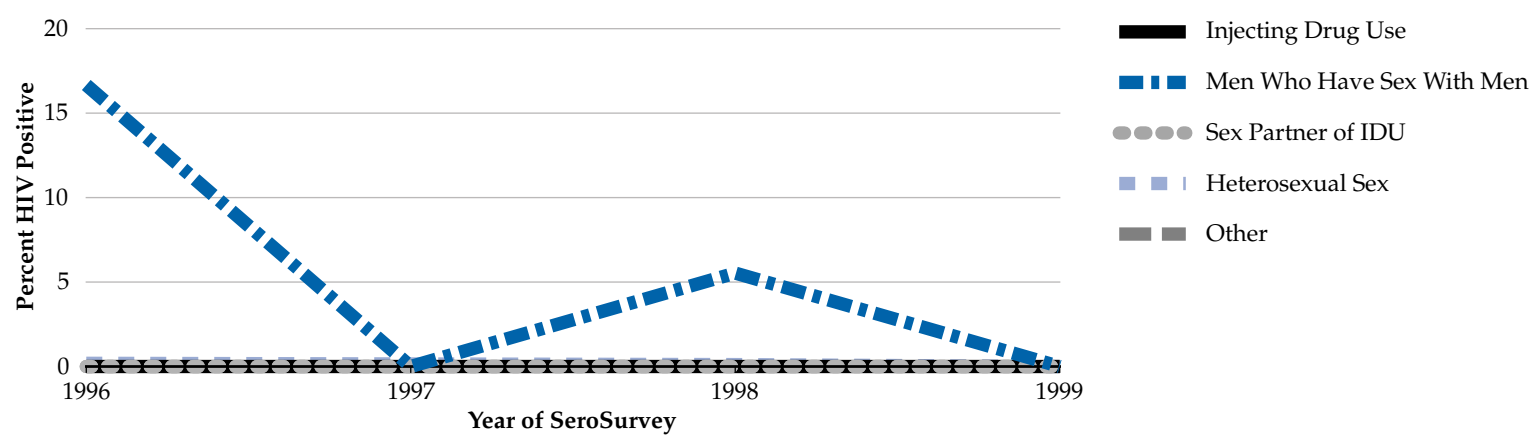


Figure 3-5c Race/Ethnicity

